Title (en)

Apparatus and method for instantaneous reacquisition in a network system

Title (de)

Gerät und Verfahren zur augenblicklicher Erfassung in einer Netzanordnung

Title (fr)

Appareil et méthode pour réacquisition instantanée dans un système réseau

Publication

EP 1049270 A3 20030827 (EN)

Application

EP 00303650 A 20000428

Priority

US 30195099 A 19990429

Abstract (en)

[origin: EP1049270A2] A data link network system comprising a central node airborne station and a plurality of ground stations each having multi-channel transmitter/receiver capable of transmitting quadrature phase spread spectrum signals and in phase spread spectrum signals both of which contain data. One of said quadrature channels is maintained as a master channel which provides a master time of day clock in the airborne platform of the network system and the other channel is employed as an adjustable time of day clock channel for resynchronizing ground stations after an outage. When an outage occurs between the airborne station and one of the ground stations the airborne station calculates the propagation time to the ground station and shifts the adjustable channel to transmit a spread spectrum data signal which will arrive in synchronization with the time of day in the ground station that had the outage. The transmitted data signal is instantaneously reacquired by the ground station and the data transmitted is employed to resynchronize the ground station receiver/transmitter with the master clock in the airborne receiver/transmitter.

IPC 1-7

H04B 7/185; H04B 7/212

IPC 8 full level

H04B 7/185 (2006.01)

CPC (source: EP US)

H04B 7/18504 (2013.01 - EP US)

Citation (search report)

- [A] US 3778715 A 19731211 - HUSTED J, et al
- [DA] US 5559788 A 19960924 - ZSCHEILE JR JOHN W [US], et al
- [A] US 5261118 A 19931109 - VANDERSPOOL II JAN P [US], et al

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Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1049270 A2 20001102; **EP 1049270 A3 20030827**; **EP 1049270 B1 20061018**; AT E343261 T1 20061115; DE 60031324 D1 20061130; DE 60031324 T2 20070531; US 6501808 B1 20021231

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EP 00303650 A 20000428; AT 00303650 T 20000428; DE 60031324 T 20000428; US 30195099 A 19990429